

APPLICATION OF SUSTAINABLE DEVELOPMENT INTO PROJECT MANAGEMENT BODY OF KNOWLEDGE

TAN YONG JIAN

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DEDICATION

Deepest gratitude to **my beloved father, mother, brother and sister**
for their morale support and encouragement

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ABSTRACT

A project management practice plays an important role to drive the existing practices into more sustainable approach. Construction industry is the main contributor to environment problem, quality of life and national economic. However, the development in Malaysia construction industry still in its growing stage. Thus, this research is carried out to investigate the possibility to integrate sustainable development into project management practices through PMBOK guideline. This research utilized quantitative approach where questionnaires were distributed to project manager, contractor and academician/researcher. The questionnaire was divided into 4 parts which are general information, practices of sustainable development and project management, integrating sustainable development into project management processes and integrating sustainable development into areas of PMBOK. The data collected was analyzed using WEKA and Microsoft Excel. The findings show that Malaysian construction industry is ready to adopt sustainable development and PMBOK because they are practicing acceptable level of knowledge on sustainable development and PMBOK. Besides, results also shown that the initial stage of project life cycle got higher improvement in environmental, social and economic aspect. The integration is possible for project management processes and knowledge areas. The findings also revealed the related attribute between project management processes group and knowledge areas.

ABSTRAK

Amalan pengurusan project memainkan peranan yang penting untuk memacu amalan sedia ada ke dalam pendekatan yang lebih mampan. Industri pembinaan adalah penyumbang utama kepada masalah alam sekitar, kualiti hidup dan ekonomi negara. Walau bagaimanapun, perkembangan dalam industry pembinaan Malaysia masih di peringkat yang masih berkembang. Oleh itu, kajian ini dijalankan untuk menyiasat kemungkinan untuk mengintegrasikan pembangunan mampan ke dalam amalan pengurusan project melalui garis panduan PMBOK. Kajian ini menggunakan pendekatan kuantitatif di mana soal selidik telah diedarkan kepada pengurus projek, kontraktor dan ahli akademi/penyelidik. Soal selidik dibahagikan kepada 4 bahagian iaitu maklumat umum, amalan pembangunan mampan dan pengurusan projek, mengintegrasikan pembangunan mampan dalam bidang PMBOK. Data yang diperolehi dianalisis dengan menggunakan WEKA dan Microsoft Excel. Dapatan kajian menunjukkan bahawa industry pembinaan Malaysia bersedia untuk menerima pakai pembangunan mampan dan PMBOK kerana mereka mengamalkan tahap pengetahuan yang boleh diterima kepada pembangunan mampan dan PMBOK. Selain itu, keputusan juga menunjukkan bahawa peringkat awal kitar hayat projek menyumbang peningkatan yang lebih tinggi dalam aspek alam sekitar, sosial dan ekonomi. Integrasi adalah mungkin untuk proses pengurusan projek dan bidang pengetahuan. Hasil kajian ini juga menunjukkan sifat yang berkaitan antara kumpulan proses pengurusan projek dan bidang pengetahuan.